

NGDA Theme Community Meeting

*March 11, 2020
1:00 – 2:30 PM ET*

Webinar:

<https://attendee.gotowebinar.com/register/3373534076287333133>

Dial-In:

703.648.4848 / Toll Free: 855.547.8255
Code: 79000#



Agenda

- ❖ Welcome and Roll Call
- ❖ Current and Past Theme Reports Status
- ❖ Geospatial Data Act (GDA) Overview
- ❖ Lead Covered Agency (Theme) GDA Reporting
- ❖ FDS 2020 Action Plan Action 10: *Integrate Geospatial Data Practices into the Federal Data Enterprise*
- ❖ Metadata Initiatives Update
- ❖ NGDA Inventory & POC Updates
- ❖ Action Item Review
- ❖ 2020 Meeting Schedule
- ❖ Open Discussion

Roll Call

Theme	Name	Agency
Address	Lynda Liptrap	Census Bureau
Address	Steve Lewis	DOT
Biodiversity and Ecosystems	Marcia McNiff	USGS
Cadastral	Dominica VanKoten	BLM
Climate and Weather	Kari Sheets	NOAA
Cultural Resources	Deidre McCarthy	NPS
Elevation	Ashley Chappell	NOAA
Elevation	Sue Buto (Jan-Apr)	USGS
Geodetic Control	Daniel Roman	NOAA
Geology	Paul Godfriaux	BOEM
Geology	Dave Soller	USGS

Theme	Name	Agency
Governmental Units	Dierdre Bevington-Attardi	Census Bureau
Imagery	Greg Snyder	USGS
Imagery	John Mootz	USDA
Land Use - Land Cover	Greg Reams	USFS
Land Use - Land Cover	Brad Reed	USGS
Real Property	Valerie Butler	GSA
Soils	Drew Kinney	USDA
Transportation	Derald Dudley	DOT
Utilities - Offshore	Jeff Harris	BSEE
Utilities - Terrestrial	TBD	
Water - Inland	Megan Lang	FWS
Water - Inland	Becci Anderson	USGS
Water - Oceans and Coasts	Patrick Keown	NOAA

Current and Past Theme Reports Status



Theme Strategic Plans Status Update

- ❖ The following table is for Theme Lead situational awareness
- ❖ Green status indicates time period ending 2021 or beyond

Theme	Report Dates and Link	Status
Address	2019-2021 Address Theme Strategic Plan	
Biodiversity and Ecosystems	2016-2021 Biodiversity and Ecosystems Theme Strategic Plan	
Cadastre	2017-2021 Cadastre Theme Strategic Plan	
Climate and Weather	2015-2020 Climate and Weather Theme Strategic Plan	Through 2020
Cultural Resources	2015-2020 Cultural Resources Theme Strategic Plan	Through 2020
Elevation	2016-2021 Elevation Theme Strategic Plan	
Geodetic Control	2016-2021 Geodetic Control Theme Strategic Plan	
Geology	2017-2022 Geology Theme Strategic Plan	
Governmental Units, and Administrative and Statistical Boundaries	2017-2021 Governmental Units, and Administrative and Statistical Boundaries Theme Strategic Plan	
Imagery	2017-2020 Imagery Theme Strategic Plan	Through 2020
Land Use - Land Cover	2017-2022 Land Use - Land Cover Theme Strategic Plan	
Real Property	2018-2022 Real Property Theme Strategic Plan	
Soils	2016-2021 Soils Theme Strategic Plan	
Transportation	2016-2019 Transportation Theme Strategic Plan	Through 2019
Utilities	2016-2019 Utilities Theme Strategic Plan	Through 2019
Water - Inland	2016-2021 Water - Inland Theme Strategic Plan	
Water - Oceans and Coasts	2017-2021 Water - Oceans and Coasts Theme Strategic Plan	

Past Due Theme Implementation Plans

As of 3/1/2020

Theme	FY17 Implementation Plan Due Oct '17	FY18 Implementation Plan Due Oct '18	FY19 Implementation Plan Due Oct '19
Biodiversity and Ecosystems	Not Submitted	In Progress (per meeting with TL Marcia McNiff on 4/10/19)	
Climate and Weather	See FY18 TIP	Posted	[FY19 draft sent to TL]
Cultural Resources	Posted	Posted	[FY19 draft sent to TL]
Elevation*	Posted	Posted	[FY19 draft sent to TL; reported in progress]
Geology	Posted	Posted	[FY19 draft sent to TL]
Land Use Land Cover	Posted	Draft submitted; being finalized by Co-TL pending final discussion and edit	
Real Property	Posted	Not Submitted	[FY19 draft sent to new TL Valerie Butler]
Soils	Not Submitted	Not Submitted	Draft submitted; pending NGDAID 140 name change
Transportation*	Posted	Posted	[FY19 draft sent to TL]
Utilities	Not Submitted	Not Submitted	[FY19 draft sent to TL]
Water - Oceans and Coasts*	Posted	Posted	[FY19 draft sent to TL]

* Framework Themes

**Contact Lorna Schmid for help
completing reports:
NGDATeam@fgdc.gov**

Update on GDA Implementation



GDA – FGDC Activities to Date

- Initial analysis – review of requirements/deliverables
- GDA Tiger Teams – identification/resolution of key implementation issues
- Engagement with NGAC
 - [Initial Comments on GDA Implementation](#)
 - [Comments on Revision of Circular A-16](#)
- Development of draft OMB Guidance (revised Circular A-16) – pending
- Coordination with related Federal data initiatives (Federal Data Strategy, Evidence Act/Open Government Data Act)
- Engagement with Federal IG Council (CIGIE)

GDA – Current/Upcoming Activities

- GDA Implementation Roadmap
- Development of NSDI Strategic Plan
- Guidance/templates for Covered Agency & Lead Covered Agency annual reports
- Approach for GDA Report to Congress & FGDC annual report
- NGAC subcommittees (NSDI subcommittee, Congressional Report subcommittee)
- Completion of initial Inspector General (IG)GDA Audits

GDA – Key Issues

Coordination

- Development of consistent, effective cross-agency GDA implementation approaches. Alignment with related data initiatives & requirements.

Governance

- Updating FGDC governance processes to align with GDA requirements & ensure broad national approach.

Resources

- Identifying appropriate resources (staff, expertise, project management, communication, funding) to achieve GDA requirements.

Collaboration

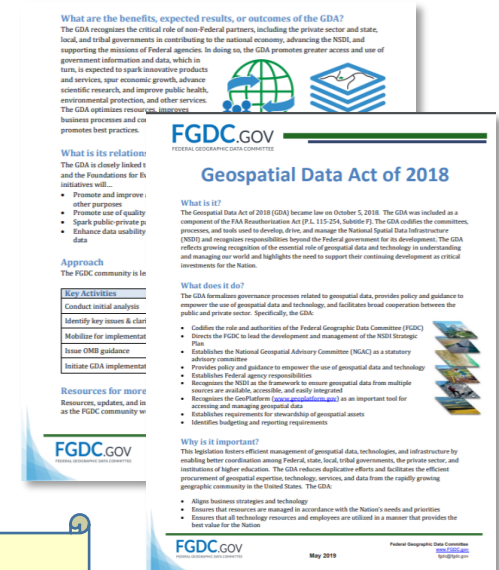
- Ensuring effective engagement with non-Federal partners & stakeholders. Developing strategies, tools, and relationships for effective two-way communication

GDA Overview with Focus on NGDA Data Themes



Geospatial Data Act (GDA) Overview

- ❖ The Geospatial Data Act of 2018:
 - ❖ Formalizes governance processes related to geospatial data
 - ❖ Provides policy and guidance to empower the use of geospatial data and technology, and
 - ❖ Facilitates broad cooperation between the public and private sector
- ❖ Closely tied to other legislation and data initiatives:
 - ❖ Federal Data Strategy (FDS) and 2020 Action Plan
 - ❖ Foundations for Evidence-Based Policy Making (Evidence Act)
 - ❖ E-Government Act Implementation



FGDC GDA Resource Page: <https://www.fgdc.gov/gda>

Geospatial Data Act (GDA) Overview

SEC. 756. NATIONAL GEOSPATIAL DATA ASSET DATA THEMES.

(a) IN GENERAL. —The Committee shall designate as National Geospatial Data Asset data themes the primary topics and subjects for which the coordinated development, maintenance, and dissemination of geospatial data will benefit the Federal Government and the interests of the people of the United States, which shall— (1) be representations of conceptual topics describing digital spatial information for the Nation; and (2) contain associated datasets (with attribute records and coordinates)— (A) that are documented, verifiable, and officially designated to meet recognized standards; (B) that may be used in common; and (C) from which other datasets may be derived.

Geospatial Data Act (GDA) Overview

SEC. 756. NATIONAL GEOSPATIAL DATA ASSET DATA THEMES. (cont.)

(b) LEAD COVERED AGENCIES.

(1) IN GENERAL. For each National Geospatial Data Asset data theme, the Committee shall designate one or more covered agencies as the lead covered agencies for the National Geospatial Data Asset data theme.

(2) GENERAL RESPONSIBILITY. The lead covered agencies for a National Geospatial Data Asset data theme shall be responsible for **ensuring the coordinated management of the data**, supporting resources (including technology and personnel), and related services and products of the National Geospatial Data Asset data theme.

Geospatial Data Act (GDA) Overview

SEC. 756. NATIONAL GEOSPATIAL DATA ASSET DATA THEMES. (cont.)

(3) SPECIFIC RESPONSIBILITIES. —To assist in fulfilling the responsibilities under paragraph (2) with respect to a National Geospatial Data Asset data theme, the lead covered agencies shall—

(A) provide leadership and facilitate the development and implementation of geospatial data standards for the National Geospatial Data Asset data theme, with a particular emphasis on a data content standard for the National Geospatial Data Asset data theme, including by— (i) assessing existing standards; (ii) identifying anticipated or needed data standards; and (iii) developing a plan to originate and implement needed standards with relevant community and international practices— (I) in accordance with Office of Management and Budget Circular A– 119, or any successor thereto; and (II) consistent with or as a part of the plan described in subparagraph (B);

Geospatial Data Act (GDA) Overview

SEC. 756. NATIONAL GEOSPATIAL DATA ASSET DATA THEMES. (cont.)

(B) provide leadership and facilitate the development and implementation of a plan for nationwide population of the National Geospatial Data Asset data theme, which shall— (i) include developing partnership programs with States, Indian tribes, institutions of higher education, private sector entities, other Federal agencies, and local governments; (ii) meet the needs of users of geospatial data; (iii) address human and financial resource needs; (iv) identify needs relating to standards, metadata for geospatial data within the National Geospatial Data Asset data theme, and the GeoPlatform; and (v) expedite the development of necessary National Geospatial Data Asset data theme

Geospatial Data Act (GDA) Overview

(C) establish goals that support the strategic plan for the National Spatial Data Infrastructure prepared under section 755(c);

(D) as necessary, collect and analyze information from users of geospatial data within the National Geospatial Data Asset data theme regarding the needs of the users for geospatial data and incorporate the needs of users in strategies relating to the National Geospatial Data Asset data theme; and

(E) as part of administering the National Geospatial Data Asset data theme— (i) designate a point of contact within the lead covered agency who shall be responsible for developing, maintaining, coordination relating to, and disseminating data using the GeoPlatform; (ii) submit to the Committee—

(I) a performance report, at least annually, that documents the activities relating to and implementation of the National Geospatial Data Asset data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D); and

Geospatial Data Act (GDA) Overview

(II) comments, as appropriate, regarding the summary and evaluation of the performance report provided by the Committee under section 753(c)(12); (iii) publish maps or comparable graphics online (in accordance with the mapping conventions specified by the Committee) showing the extent and status of the National Geospatial Data Asset data themes for which the covered agency is a lead covered agency; (iv) encourage individuals and entities that are a source of geospatial data or metadata for geospatial data for the National Geospatial Data Asset data theme to provide access to such data through the GeoPlatform; (v) coordinate with the GeoPlatform; and (vi) identify and publish proven practices for the use and application of geospatial data of the lead covered agency.

GDA Section 756 (b)(3)(E)(ii)(I) Annual Performance Report



NGDA Theme Annual Performance Reports: Lead Covered Agency

§756(b) LEAD COVERED AGENCIES. —

(3)(E) as part of administering the National Geospatial Data Asset data theme—

(ii) submit to the Committee—

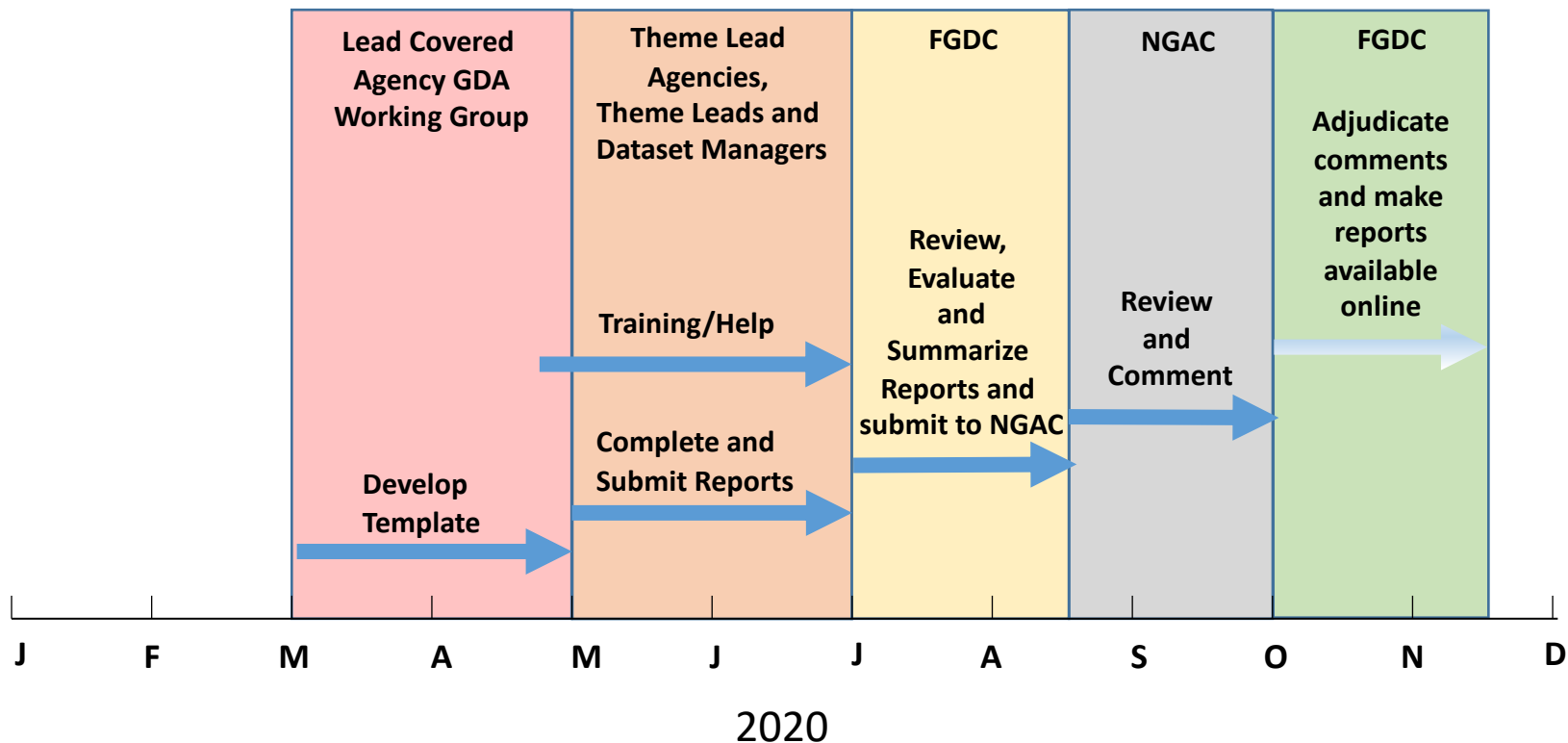
- (I) a performance report, at least annually, that documents the activities relating to and implementation of the NGDA data theme, including progress in achieving the requirements under subparagraphs (A), (B), (C), and (D);

Process

- ❖ Finalize a timeline to develop 2020 Baseline Performance Report
- ❖ Deconstruct the GDA and Theme Implementation Plan Template to determine components needed for Baseline Performance Report
- ❖ Provide consistent language for templates to address status or progress in meeting expectations for (A), (B), (C), (D)
- ❖ Ensure evaluations of Lead Agency responses can be consistently provided in the FGDC summary report
- ❖ Provide training and help in developing reports
- ❖ Submit Theme reports to FGDC for summarization and evaluation
- ❖ Facilitate responses to NGAC comments

NGDA Theme Annual Performance Reports: Lead Covered Agency

Timeline



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GDA - Annual Performance Report Template Volunteers

Next Steps:

- ❖ Volunteers needed to assist in the development of the Baseline Annual Performance Report Template
 - ❖ NGDA Team will:
 - ❖ Facilitate template development
 - ❖ Develop training materials
 - ❖ Federal Working Group Team will:
 - ❖ Review and adjudicate template
 - ❖ Review training/help materials



Federal Data Strategy Overview



Federal Data Strategy 2020 Action Plan

- ❖ Flagship product of the President's Management Agenda
- ❖ Annual Action Plans will ensure agencies and shared service providers meet the requirements of multiple laws, Executive Orders, and other directives by establishing
 - ❖ Responsible entities
 - ❖ Consistent approaches
 - ❖ Documented milestones
 - ❖ Targeted timeframes
- ❖ Includes 20 Actions broken into three distinct categories:
 - ❖ Agency Actions (6)
 - ❖ Community of Practice Actions (4)
 - ❖ Shared Solution Actions (10)

FDS 2020 Action Plan – Agency Actions

Foundational steps to support establishing plans, processes, and priorities for better managing data assets while considering how the agency's data assets could be leveraged to advance the agency's mission

Agency Actions			
	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	Improving Implementation of the Information Quality Act (M-19-15)
1. Identify Data Needs to Answer Priority Agency Questions	✓		✓
2. Constitute a Diverse Data Governance Body	✓		✓
3. Assess Data and Related Infrastructure Maturity			✓
4. Identify Opportunities to Increase Staff Data Skills	✓		
5. Identify Priority Data Assets for Agency Open Data Plans	✓	✓	✓
6. Publish and Update Data Inventories	✓		

- Agencies will establish baselines based on current status
- Understood that there are different levels of maturity
- Tools and Resources will be posted to resources.data.gov

FDS 2020 Action Plan – Community of Practice Actions

Key opportunities for agencies to build upon ongoing efforts to improve and better coordinate data-related initiatives across agencies.

Community of Practice Actions				
	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	The Geospatial Data Act of 2018	Appendix A to OMB Circular No. A-123 Management of Reporting and Data Integrity Risk (M-18-16)
7. Launch a Federal Chief Data Officer Council	✓			
8. Improve Data and Model Resources for AI Research and Development		✓		
9. Improve Financial Management Data Standards				✓
10. Integrate Geospatial Data Practices into the Federal Data Enterprise			✓	

Capitalize on work related to the

- Executive Order on Maintaining American Leadership in Artificial Intelligence
- Geospatial Data Act of 2018
- Evidence Act
- Efforts related to the management and use of several financial management data assets across government

FDS 2020 Action Plan – Shared Solution Actions

Government-wide data services and represent discrete pilot projects or efforts led by a single agency or existing council for the benefit of all agencies

Shared Solution Actions			
	Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance	Executive Order on Maintaining American Leadership in Artificial Intelligence	Improving Implementation of the Information Quality Act (M-19-15)
11. Develop a Repository of Federal Enterprise Data Resources	✓		
12. Create an OMB Federal Data Policy Committee	✓		
13. Develop a Curated Data Skills Catalog	✓		
14. Develop a Data Ethics Framework		✓	✓
15. Develop a Data Protection Toolkit	✓		✓
16. Pilot a One-Stop Standard Research Application	✓		
17. Pilot an Automated Tool for Information Collection Reviews that Supports Data Inventory Creation and Updates	✓	✓	
18. Pilot Enhanced Data Management Tool for Federal Agencies	✓	✓	
19. Develop Data Quality Measuring and Reporting Guidance			✓
20. Develop a Data Standards Repository			✓

- Designed to provide government-wide direction, tools, and/or services for implementing the strategy that other agencies will be able to leverage in the future
- Many of the Shared Solution Actions have received financial resources as part of the CAP Goal: *Leveraging Data as a Strategic Asset* and are already underway

FDS Action 10 Milestone:
*Track NGDAs for
implementation of standards*



Action 10: Integrate Geospatial Data Practices into the Federal Data Enterprise

MILESTONE	MEASUREMENT	TARGET DATE	RESPONSIBLE PARTY
Establish the NSDI strategic plan	Completion	December 31, 2020	SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA
Publish a GeoPlatform providing standards-compliant web services for NGDAs	Completion	December 31, 2020	
Engage with other relevant councils	Number of engagements	December 31, 2020	
Publish NGDA data theme data assets with standards compliant metadata and webservice endpoints	Percentage of NGDA data assets that are compliant	December 31, 2020	
Track NGDAs for implementation of standards	Percentages of NGDAs with: i) metadata standards, ii) established content standards, iii) standards in process, iv) data assets not requiring standards, v) no established standards	December 31, 2020	

Action 10: Integrate Geospatial Data Practices into the Federal Data Enterprise

Milestone: Track NGDAs for implementation of standards

Requirement

By December 31, 2020, measure percentages of NGDA with:

- i) metadata standards
- ii) established content standards
- iii) standards in process
- iv) data assets not requiring standards
- v) no established standards

Action 10 Milestone:

Track NGDAs for implementation of standards

Process

Create a baseline inventory of standards associated with each NGDA:

- ❖ Form NGDA Standards Inventory Working Group
- ❖ Review and establish agreed-upon definitions for i) metadata standards, and ii) established content standards
- ❖ Review and finalize draft questions with pick lists of established standards for Theme Leads and Dataset Managers to use in gathering the baseline
 - Include options for user-provided input
 - Consider Theme-specific standards
 - Build on the 2017 Lifecycle Maturity Assessment (LMA) process and responses
- ❖ Provide Training and Help documentation

Action 10 Milestone:

Track NGDAs for implementation of standards

Current Approach

- ❖ Short questionnaire to gather baseline:
 - ❖ Metadata Content and Exchange Standards –
5 questions addressing metadata standards in use
 - ❖ Data Content and Exchange Standards –
10 questions addressing data standards in use
- ❖ Creates a standards inventory database to allow updates and reporting as needed

Action 10 Milestone:

Track NGDAs for implementation of standards

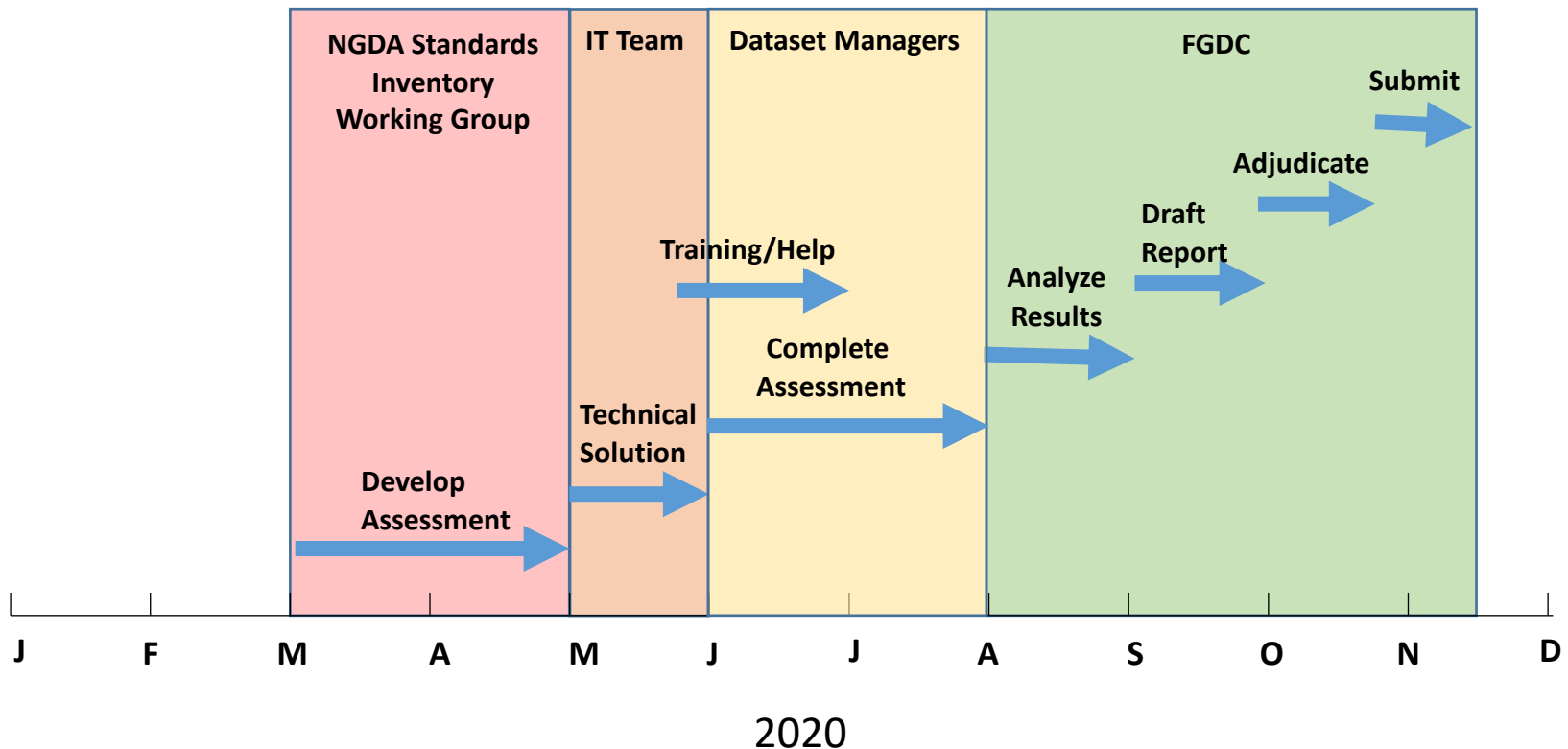
Outcomes - Supports the following reporting requirements:

- ❖ GDA Section 756. NGDA Data Themes:
 - ❖ (b)(3)(A) – *...facilitate the development and implementation of geospatial data standards...with a particular emphasis on a data content standard... including by (i) **assessing existing standards***
 - ❖ (b)(3)(E) – (ii) *submit to the Committee (I) **a performance report**, at least annually, that documents the activities relating to and implementation of the NGDA data theme, and*
- ❖ GDA Section 757. Geospatial Data Standards:
 - ❖ *In accordance with section 216 of the EGovernment Act of 2002 (44 U.S.C. 3501 note), the Committee shall establish standards for each NGDA data theme... (B) **content standards for metadata***
- ❖ Foundations for Evidence-Based Policymaking Act Annual Performance Report
- ❖ E-Government Act Implementation Annual Report

Action 10 Milestone:

Track NGDAs for implementation of standards

Timeline



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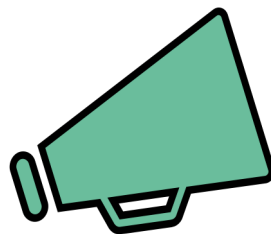
Action 10 Milestone:

Track NGDAs for implementation of standards

NEW

Next Steps

- ❖ Volunteer for NGDA Standards Inventory Working Group!
- ❖ Review draft documentation and questionnaire
- ❖ Test questionnaire process and responses for some NGDA Datasets



Please Volunteer!



Geospatial Data and Metadata Standards

Federal Data Strategy 2020 Action Plan

Action 10 Milestone:
Track NGDAs for Implementation of Standards

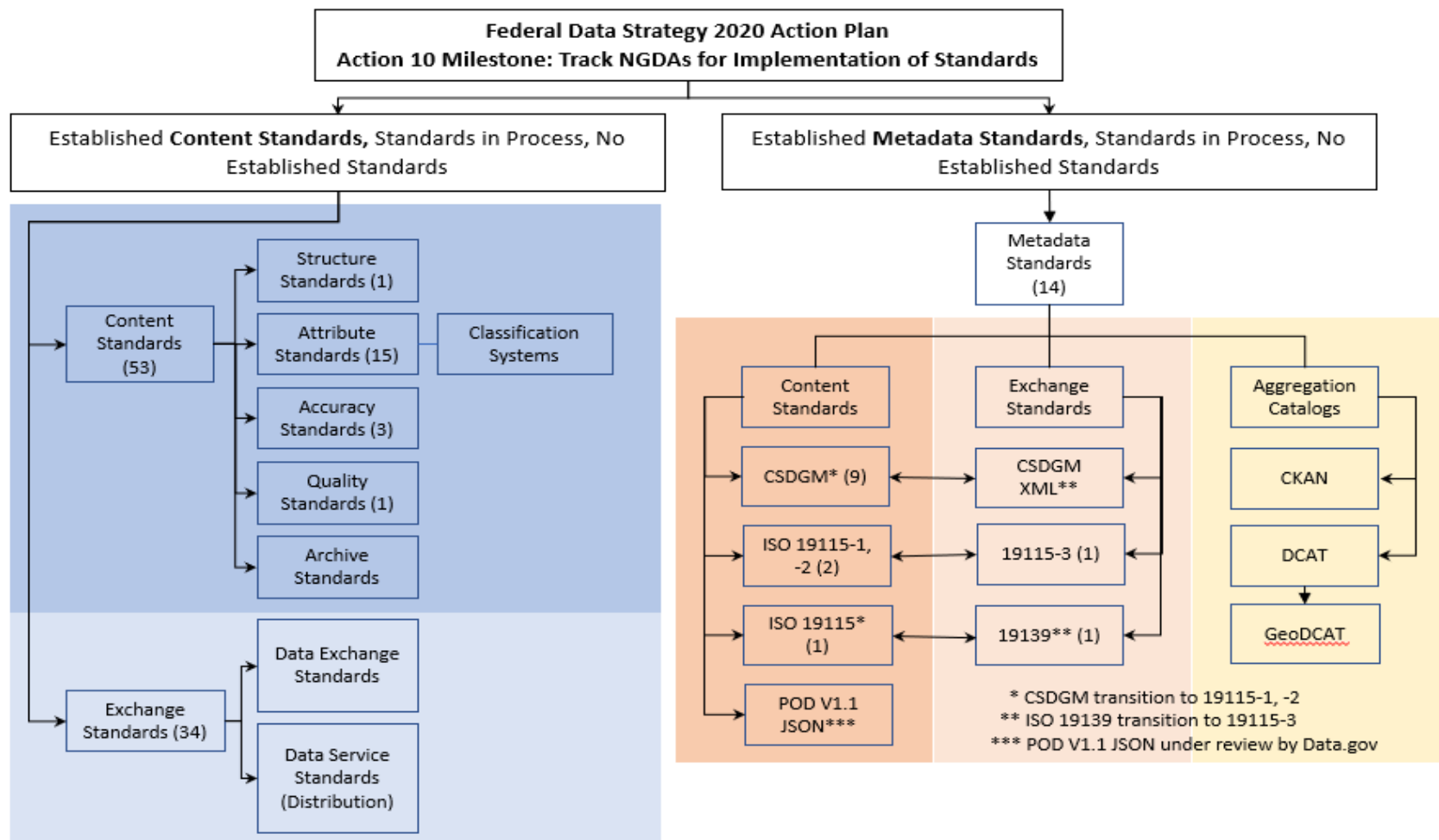
A Baseline Inventory Assessment Approach

Federal Geographic Data Committee

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Data and Metadata Standards Categories



Standard (##) (For example: Exchange Standard (34)) - Count of FGDC Endorsed, Under Development, or in Review Standards:

<https://www.fgdc.gov/standards>

Metadata Initiatives Update



New Metadata Guidelines

FGDC Technical Guidance: *Data.gov and The GeoPlatform Metadata Recommendations - including Guidelines for National Geospatial Data Assets (NGDA)*

- ❖ Provides ISO and CSDGM exemplars
- ❖ Located online <https://fgdc.gov/technical-guidance>
- ❖ Replaces deprecated metadata documents:
 - ❖ “*Metadata Recommendations Supporting Data Discovery and Use in Data.gov and the Geospatial Platform*” and
 - ❖ “*National Geospatial Data Asset (NGDA) Metadata Guidelines*”
- ❖ Provides limited guidance on CSDGM to encourage transition to ISO 19115-1, 2, 3

Testing Metadata Publishing Workflows

❖ Next Steps

- ❖ Validate Schemas - Complete
- ❖ Create Test WAF - Complete
- ❖ Data.gov installing new GSDGM to ISO transform – In Progress
- ❖ Test candidates harvested by Data.gov
- ❖ Test CSDGM to ISO 19139 transform with:
 - Existing transform
 - New transform
- ❖ Compare output from Data.gov with original metadata
- ❖ Compile and report test results
- ❖ Recommend:
 - Improvements in workflow
 - Improvements in metadata

NGDA Inventory & POC Updates

❖ Theme Executive Champion Change

NGDA Theme	New Theme Executive Champion	Previous Exec. Champion

❖ Theme Lead Change

NGDA Theme	New Theme Lead	Previous Theme Lead

❖ Dataset Manager Changes

NGDA Dataset Name	Theme	New Dataset Manager	Previous Dataset Manager
National Coordinated Common Resource Areas (CRA) Geographic Database	Soils	Drew Kinney	Dave Hoover
Major Land Resource Areas (MLRA)	Soils	Drew Kinney	Dave Hoover

NGDA Inventory & POC Updates (cont.)

❖ Dataset Manager Changes (cont.)

NGDA Dataset Name	Theme	New Dataset Manager	Previous Dataset Manager
Soil Survey Geographic Database (SSURGO)	Soils	Drew Kinney	Dave Hoover
U.S. General Soil Map (STATSGO2)	Soils	Drew Kinney	Dave Hoover
National Cooperative Soil Characterization Database <i>[Note: Also see proposed NGDA name change]</i>	Soils	Drew Kinney	Dave Hoover
FWS Critical Habitat for Threatened and Endangered Species Dataset	Biodiversity and Ecosystems	Michaelle Shultz	John Swords

Action Item Review

- ❖ Volunteer!
- ❖ Get engaged in Lead Covered Agency reporting compliance activities
- ❖ Ask questions
- ❖ Provide input and feedback to the process
- ❖ Stay informed and involved!



2020 Theme Community Meeting Schedule

❖ Meeting Schedule, Agenda, Slides, and Notes:

<https://communities.geoplatform.gov/ngda-portfolio/meetings/>

Date	Time (Eastern)
Jan 9 (Thursday)*	1:00 - 2:30 ET
Feb 6 (Thursday)*	1:00 - 2:30 ET
Mar 11 (Wednesday)*	1:00 - 2:30 ET
Apr 7 (Tuesday)	1:00 - 2:30 ET
May 7 (Thursday)	1:00 - 2:30 ET
June 2 (Tuesday)	1:00 - 2:30 ET
July 9 (Thursday)*	1:00 - 2:30 ET
Aug 4 (Tuesday)	1:00 - 2:30 ET
Sep 3 (Thursday)	1:00 - 2:30 ET
Oct 6 (Tuesday)	1:00 - 2:30 ET
Nov 5 (Thursday)	1:00 - 2:30 ET
Dec 1 (Tuesday)	1:00 - 2:30 ET

** Denotes date adjustment due to holiday or other conflict*

Open Discussion

Next Meeting:

April 7, 2020

1:00 PM – 2:30 PM ET

